

# INTERNATIONAL SEARCH REPORT

Intern      Application No  
PCT/IT 03/00647

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C25D17/14 C25F7/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C25D C25F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CH 130 909 A (BERNARD LOUIS) 15 January 1929 (1929-01-15) page 1, left-hand column, lines 1-14; figure 4 page 2, left-hand column, lines 27-46	1,2
X	US 2 798 849 A (LINDSAY ALLEN R) 9 July 1957 (1957-07-09) column 2, line 28 - column 3, line 47; figure 2 column 4, lines 58-65	1,2
X	DE 38 34 035 A (GUT GES UMWELTSCHONENDE TECH) 12 April 1990 (1990-04-12) column 2, lines 7-35; figure 1 ----- -/--	1,3

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

24 January 2005

Date of mailing of the international search report

02.03.05

Name and mailing address of the ISA

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International Application No

PCT/IT 03/00647

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 85 13 410 U (LAIDEMITT, K.-D.) 7 November 1985 (1985-11-07)	1
A	page 6, line 23 - page 7, line 7; figure 4 -----	2,3
X	DE 11 30 245 B (METRIMPEX MAGYAR MUESZERIPARI) 24 May 1962 (1962-05-24) column 2, line 42 - column 4, line 7; figures 1,4 column 5, lines 54-68 -----	4
X	US 3 346 477 A (WOLFER HARNISCH P) 10 October 1967 (1967-10-10) column 1, line 72 - column 3, line 4; figures 1,2 -----	6,14
X	US 828 814 A (CUNNINGHAM, FRANK) 14 August 1906 (1906-08-14) page 1, right-hand column, lines 5-104; figures 1,2 -----	6,14
X	DE 40 18 649 A1 (CLASEN, HERMANN, DIPL.-CHEM. DR., 6240 KOENIGSTEIN, DE) 12 December 1991 (1991-12-12) page 3, line 59 - page 4, line 19; figures 1,5; example 4 page 9, lines 10-13 -----	6,14

# INTERNATIONAL SEARCH REPORT

In

tional application No.  
PCT/IT 03/00647**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
1-7, 14-18
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☒ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

## 1. claims: 1-3

Claims 1-3 are directed towards an electrode device for the electrolytic surface treatment of metals, comprising a nozzle connected with a unipolar external power source, a tank for electrolytic solution connected to the said electrode device in order to supply the nozzle through channels inside said device with electrolytic solution which is put under pressure through a dosing device controlled by a user, the said dosing device being activated by pressure of the user on the tank.

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## 2. claims: 4-7 and 14-18

Claims 4-7 and 14-18 are directed towards an electrode device for the electrolytic surface treatment of metals, comprising a nozzle connected with a unipolar external power source, a tank for electrolytic solution connected to the said electrode device in order to supply the nozzle through channels inside said electrode device with electrolytic solution which is put under pressure through a dosing device controlled by a user, the said dosing device being activated by pressure of the user on the body or shell of the electrode device.

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## 3. claim: 8

Claim 8 is directed towards an electrode device for the electrolytic surface treatment of metals, comprising a nozzle connected with a unipolar external power source, a tank for electrolytic solution connected to the said electrode device in order to supply the nozzle through channels inside said device with electrolytic solution which is put under pressure through a dosing device controlled by a user, the said tank being removably connected to the said electrode device.

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## 4. claims: 9-13

Claims 9-13 are directed towards an electrode device for the electrolytic surface treatment of metals, comprising a nozzle connected with a unipolar external power source, a tank for electrolytic solution connected to the said electrode device in order to supply the nozzle through channels inside said device with electrolytic solution which is put under pressure through a dosing device controlled by a user, the said tank being defined by its features for re-entry of air after the suction of the electrolytic solution.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IT 03/00647

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
CH 130909	A	15-01-1929	NONE	
US 2798849	A	09-07-1957	NONE	
DE 3834035	A	12-04-1990	DE 3834035 A1	12-04-1990
			AU 4522289 A	01-05-1990
			DE 3901976 A1	26-07-1990
			WO 9004052 A1	19-04-1990
DE 8513410	U	07-11-1985	DE 8513410 U1	07-11-1985
DE 1130245	B	24-05-1962	NONE	
US 3346477	A	10-10-1967	NONE	
US 828814	A		NONE	
DE 4018649	A1	12-12-1991	DE 4118911 A1	10-12-1992
			WO 9119833 A2	26-12-1991
			EP 0489875 A1	17-06-1992